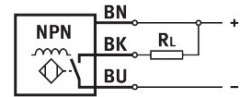


# Proximity sensor SIEH-M12B-NS-K-L

Part number: 150448

**FESTO**



## Data sheet

| Feature                                        | Value                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Conforms to standard                           | EN 60947-5-2                                                                                        |
| Certification                                  | C-Tick<br>c UL us - Listed (OL)                                                                     |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU RoHS directive                                                 |
| UKCA marking (see declaration of conformity)   | according to UK regulations for EMC (UK-E)<br>according to UK RoHS regulations (UK-R)               |
| Rated operating distance                       | 4 mm                                                                                                |
| Assured operating distance                     | 3.24 mm                                                                                             |
| Reduction factors                              | Aluminum = 0.4<br>Stainless steel St 18/8 = 0.8<br>Copper = 0.4<br>Brass = 0.5<br>Steel St 37 = 1.0 |
| Ambient temperature                            | -25 °C...70 °C                                                                                      |
| Repetition accuracy under constant conditions  | 0.2 mm                                                                                              |
| Switching output                               | NPN                                                                                                 |
| Switching element function                     | N.O. contact                                                                                        |
| Hysteresis                                     | 0.36 mm                                                                                             |
| Max. switching frequency                       | 2500 Hz                                                                                             |
| Max. output current                            | 200 mA                                                                                              |
| Voltage drop                                   | 2 V                                                                                                 |
| Inductive protective circuit                   | Installed                                                                                           |
| Short-circuit protection                       | Pulsed                                                                                              |
| DC operating voltage range                     | 10 V...30 V                                                                                         |
| Residual ripple                                | ±10 %                                                                                               |
| Idle current                                   | 10 mA                                                                                               |
| Reverse polarity protection                    | for all electrical connections                                                                      |
| Electrical connection 1, connection type       | Cable                                                                                               |
| Electrical connection 1, connection technology | Open end                                                                                            |
| Electrical connection 1, number of pins/wires  | 3                                                                                                   |
| Cable length                                   | 2.5 m                                                                                               |
| Material of cable sheath                       | TPE-U(PUR)                                                                                          |

| Feature                                              | Value                             |
|------------------------------------------------------|-----------------------------------|
| Size                                                 | M12                               |
| Type of mounting                                     | With locknut                      |
| Mounting type                                        | Flush                             |
| Product weight                                       | 110 g                             |
| Housing material                                     | Brass<br>PBTP<br>Nickel-plated    |
| Switching status indication                          | Yellow LED                        |
| Ambient temperature with flexible cable installation | -5 °C...70 °C                     |
| Degree of protection                                 | IP65<br>IP67                      |
| Corrosion resistance class (CRC)                     | 2 - Moderate corrosion stress     |
| LABS (PWIS) conformity                               | VDMA24364-B2-L                    |
| Selection of additional sensor information           | With increased switching distance |
| Electrical output                                    | NPN                               |
| Selection of sensor version                          | Standard                          |